

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1029517

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029517
REPORT IS A COMBINATION OF REPORTS P986121 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

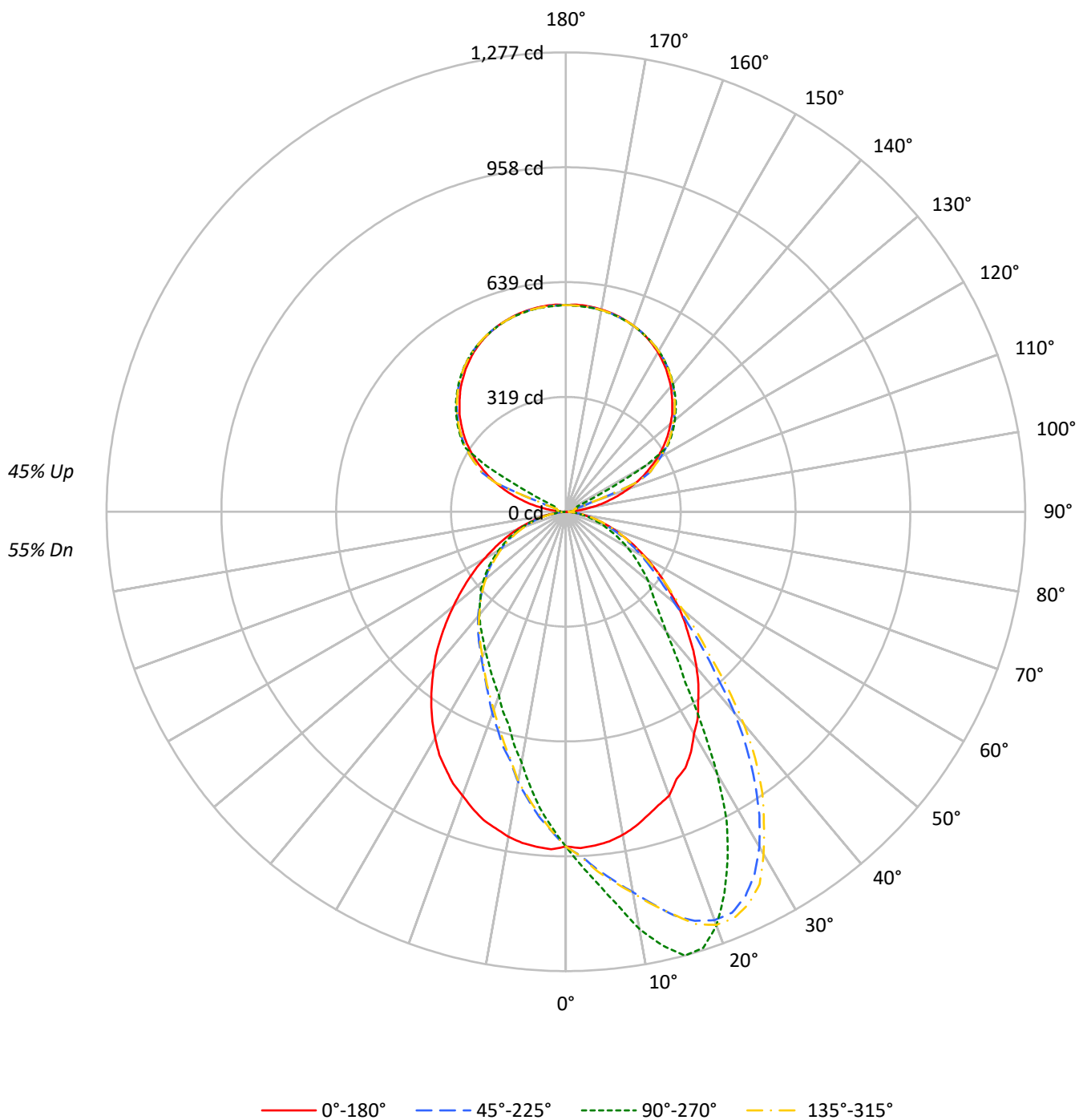
Lumens per Lamp: N/A
Luminaire Lumens: 3738.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			55
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52			47
2	91	84	78	73	84	78	73	69	67	64	60	58	55	52	49	47	45			41
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	44	41	39			35
4	77	66	58	52	71	62	55	50	54	48	44	46	42	39	39	36	34			30
5	70	59	51	45	65	55	48	43	48	43	39	42	38	34	36	32	30			27
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27			24
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	26	24			21
8	56	44	36	31	52	41	35	30	37	31	27	32	27	24	28	24	22			19
9	52	40	33	28	49	38	31	27	34	28	24	29	25	22	26	22	20			18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18			16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14729	14729	14729	14729
5°	14764	15704	14821	12495
10°	14593	17145	14684	10302
15°	14239	18083	14438	8678
20°	14017	16980	14017	7542
25°	13570	14587	13632	6745
30°	12836	11467	13081	6109
35°	12185	7929	12388	5590
40°	11435	5986	11567	5176
45°	10514	4919	10684	4727
50°	9716	4319	9733	4329
55°	8804	3679	8863	3893
60°	7835	3074	7944	3398
65°	6968	2499	7092	2902
70°	6102	1962	6258	2340
75°	5119	1424	5320	1698
80°	4000	902	4279	1007
85°	2627	454	2825	336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	2.4
10°-20°	258.0	6.9
20°-30°	374.4	10.0
30°-40°	394.7	10.6
40°-50°	349.2	9.3
50°-60°	278.9	7.5
60°-70°	189.4	5.1
70°-80°	96.9	2.6
80°-90°	23.9	0.6
90°-100°	18.9	0.5
100°-110°	70.6	1.9
110°-120°	187.3	5.0
120°-130°	310.6	8.3
130°-140°	329.9	8.8
140°-150°	306.6	8.2
150°-160°	246.5	6.6
160°-170°	158.8	4.2
170°-180°	54.7	1.5
0°-30°	721.0	19.3
0°-40°	1115.7	29.8
0°-60°	1743.8	46.6
0°-90°	2054.0	54.9
90°-120°	276.8	7.4
90°-150°	1224.0	32.7
90°-180°	1684.0	45.1
0°-180°	3738.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	930	930	930	930	930	
5°	931	1039	935	827	931	88
15°	875	1277	887	613	875	247
25°	786	1064	790	492	786	359
35°	642	579	652	408	642	401
45°	481	349	489	335	481	373
55°	330	245	333	260	330	295
65°	196	151	200	175	196	195
75°	92	74	95	89	92	98
85°	19	19	20	14	19	22
90°	0	11	0	11	0	3
95°	27	18	27	18	27	32
105°	126	32	126	32	126	135
115°	239	34	239	34	239	235
125°	338	355	338	355	338	301
135°	418	432	418	432	418	323
145°	485	492	485	492	485	303
155°	534	534	534	534	534	246
165°	563	562	563	562	563	159
175°	576	572	576	572	576	55
180°	574	574	574	574	574	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	935.5	937.7	941.2	942.0	949.1	954.8	961.3	961.3	963.4	962.7	957.0
5°	931.2	937.7	947.0	954.8	967.7	973.4	982.0	988.4	994.2	998.5	997.7
7.5°	924.1	935.5	949.1	964.1	981.3	991.3	1003.5	1014.9	1022.8	1029.9	1034.9
10°	911.9	931.2	949.8	969.9	992.0	1005.6	1019.9	1034.9	1047.1	1060.7	1073.6
12.5°	895.5	923.4	946.3	972.7	999.9	1014.9	1037.8	1049.2	1072.8	1107.2	1116.5
15°	874.7	912.6	934.1	967.7	1003.5	1015.6	1047.1	1065.7	1114.3	1135.8	1161.5
17.5°	855.4	897.6	926.2	964.8	999.9	1023.5	1054.3	1092.2	1132.9	1163.7	1192.3
20°	839.7	880.4	914.8	957.7	1002.0	1032.1	1064.3	1110.0	1154.4	1185.9	1208.0
22.5°	803.9	856.1	896.2	944.1	997.7	1039.2	1070.0	1120.1	1168.0	1187.3	1206.6
25°	786.0	831.1	877.6	931.9	994.9	1044.2	1070.7	1126.5	1168.7	1175.8	1180.1
27.5°	753.1	803.9	858.3	920.5	994.2	1035.7	1069.3	1120.1	1153.7	1148.7	1135.8
30°	712.4	774.6	834.7	901.9	984.2	1029.2	1060.7	1107.2	1124.3	1098.6	1075.7
32.5°	682.3	741.0	807.5	885.5	972.7	1015.6	1046.4	1082.9	1086.4	1039.9	1001.3
35°	641.6	706.6	781.7	864.0	953.4	992.0	1020.6	1042.8	1025.6	960.6	914.8
37.5°	605.1	669.5	749.6	833.2	926.9	964.8	987.7	991.3	949.1	891.9	824.7
40°	565.0	631.5	715.2	803.2	897.6	930.5	944.8	934.1	873.3	806.8	728.8
42.5°	525.0	590.8	680.9	771.0	860.4	888.3	894.0	864.7	790.3	712.4	622.3
45°	481.4	550.0	640.1	731.0	817.5	833.2	834.0	791.8	703.8	622.3	538.6
47.5°	445.6	509.2	598.6	689.5	762.4	773.2	768.9	720.2	624.4	532.8	459.9
50°	406.3	467.0	555.7	645.1	707.4	710.2	699.5	630.1	536.4	452.7	394.8
52.5°	364.1	425.6	507.1	592.9	648.7	644.4	623.7	549.3	461.3	391.9	347.6
55°	330.4	384.8	461.3	545.0	584.3	572.2	549.3	473.5	404.1	345.5	306.8
57.5°	293.2	341.2	416.3	489.2	512.1	500.7	477.8	407.0	342.6	298.3	272.5
60°	258.2	301.8	367.6	428.4	446.3	434.1	407.7	344.0	297.5	260.3	241.0
62.5°	226.0	263.9	319.0	374.8	381.9	369.8	346.9	295.4	255.3	226.0	211.7
65°	196.0	231.7	276.1	318.3	324.7	311.8	288.2	251.0	217.4	198.8	185.2
67.5°	166.6	195.3	234.6	265.4	268.9	256.8	237.5	207.4	186.7	166.6	156.6
70°	140.9	162.4	193.1	218.1	219.6	208.1	198.1	170.9	155.2	140.9	133.0
72.5°	115.9	130.9	154.5	173.1	173.8	166.6	157.4	140.2	126.6	116.6	108.7
75°	91.5	104.4	118.7	135.2	134.5	128.7	121.6	110.9	99.4	93.0	89.4
77.5°	70.1	78.0	89.4	100.1	100.1	97.3	93.0	85.1	78.0	71.5	67.9
80°	50.1	55.1	64.4	67.9	69.4	68.7	65.1	59.4	56.5	51.5	50.1
82.5°	32.2	35.8	40.1	43.6	45.8	44.3	43.6	40.8	36.5	35.0	33.6
85°	18.6	20.0	22.2	24.3	25.0	24.3	25.7	23.6	21.5	21.5	20.7
87.5°	7.9	8.6	10.0	10.0	10.7	10.7	10.0	10.7	10.7	10.0	9.3
90°	0.4	1.4	2.4	3.5	4.5	5.0	5.4	6.1	6.8	7.6	8.3
92.5°	10.4	10.0	9.6	9.3	8.9	8.7	8.8	9.1	9.4	9.7	10.0
95°	27.0	24.0	20.9	17.9	14.8	13.3	13.6	14.3	14.9	15.6	16.2
97.5°	48.6	41.0	33.4	25.9	18.3	14.5	15.2	16.7	18.2	19.7	21.2
100°	73.6	60.9	48.3	35.6	22.9	16.6	17.4	19.0	20.5	22.1	23.7
102.5°	101.0	100.8	100.6	100.5	100.3	100.2	91.8	75.0	58.1	41.3	24.5
105°	126.4	129.2	131.9	134.7	137.4	138.8	126.2	101.0	75.8	50.6	25.4
107.5°	155.9	158.2	160.5	162.8	165.1	166.3	150.7	119.6	88.5	57.3	26.2
110°	184.1	186.1	188.0	190.0	191.9	192.9	179.5	152.8	126.1	99.4	72.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	210.7	212.4	214.0	215.7	217.4	218.2	217.4	215.8	214.3	212.7	211.1
115°	239.0	240.6	242.2	243.7	245.3	246.1	247.3	249.6	251.9	254.2	256.5
117.5°	263.5	265.3	267.2	269.0	270.9	271.8	272.6	274.2	275.7	277.3	278.9
120°	290.9	292.3	293.7	295.1	296.5	297.2	298.0	299.7	301.4	303.0	304.7
122.5°	314.2	315.7	317.2	318.7	320.2	320.9	321.8	323.7	325.5	327.4	329.2
125°	337.9	339.1	340.3	341.5	342.7	343.3	344.2	345.9	347.7	349.4	351.2
127.5°	359.5	360.8	362.1	363.4	364.7	365.3	366.0	367.4	368.8	370.2	371.6
130°	379.9	381.4	382.8	384.3	385.8	386.5	387.0	388.0	389.1	390.1	391.1
132.5°	400.7	401.9	403.1	404.3	405.5	406.1	406.6	407.6	408.7	409.7	410.7
135°	418.1	419.6	421.1	422.6	424.1	424.8	425.2	426.0	426.9	427.7	428.5
137.5°	436.4	437.5	438.6	439.7	440.8	441.4	441.9	442.8	443.7	444.7	445.6
140°	454.3	455.0	455.8	456.5	457.2	457.6	458.1	459.1	460.2	461.2	462.2
142.5°	469.3	469.9	470.6	471.2	471.9	472.2	472.8	474.0	475.2	476.4	477.6
145°	485.1	485.0	484.9	484.8	484.7	484.6	485.4	487.0	488.5	490.1	491.7
147.5°	498.8	498.5	498.2	497.9	497.6	497.5	498.3	499.9	501.4	503.0	504.6
150°	512.1	511.5	510.8	510.2	509.5	509.2	509.9	511.4	512.9	514.3	515.8
152.5°	523.3	522.6	521.8	521.1	520.4	520.0	520.7	522.1	523.4	524.8	526.2
155°	534.1	533.3	532.5	531.6	530.8	530.4	530.9	532.0	533.1	534.2	535.3
157.5°	542.8	542.1	541.3	540.6	539.9	539.5	539.9	540.7	541.6	542.4	543.2
160°	550.3	549.7	549.2	548.6	548.1	547.8	548.1	548.6	549.2	549.7	550.3
162.5°	557.0	556.4	555.9	555.3	554.8	554.5	554.7	555.2	555.6	556.1	556.5
165°	562.8	562.2	561.7	561.1	560.6	560.3	560.4	560.7	561.0	561.2	561.5
167.5°	567.4	566.8	566.3	565.7	565.2	564.9	565.0	565.3	565.6	565.8	566.1
170°	571.1	570.5	570.0	569.4	568.9	568.6	568.7	568.9	569.0	569.2	569.4
172.5°	573.6	573.0	572.5	571.9	571.4	571.1	571.2	571.4	571.5	571.7	571.9
175°	575.7	575.1	574.4	573.8	573.1	572.8	572.9	573.1	573.2	573.4	573.6
177.5°	576.5	575.9	575.2	574.6	573.9	573.6	573.6	573.7	573.8	573.9	574.0
180°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	967.0	967.7	969.1	976.3	979.9	980.6	977.7	984.2	986.3	984.2	982.7
5°	1012.8	1017.1	1025.6	1034.9	1034.2	1034.9	1039.2	1043.5	1045.0	1039.2	1041.4
7.5°	1052.8	1061.4	1070.7	1085.0	1085.0	1092.2	1095.0	1098.6	1107.2	1102.9	1101.5
10°	1098.6	1110.0	1127.2	1150.1	1150.8	1158.0	1165.1	1176.6	1180.1	1177.3	1178.7
12.5°	1155.8	1178.0	1179.4	1204.4	1215.9	1217.3	1228.8	1226.6	1233.8	1233.8	1245.9
15°	1180.8	1215.2	1234.5	1258.8	1266.0	1257.4	1266.7	1276.7	1277.4	1277.4	1276.7
17.5°	1225.9	1239.5	1258.8	1271.7	1274.5	1274.5	1275.3	1279.5	1276.7	1271.0	1275.3
20°	1235.2	1240.9	1248.1	1246.6	1248.1	1240.9	1233.8	1226.6	1227.3	1223.8	1234.5
22.5°	1218.0	1216.6	1200.2	1189.4	1189.4	1175.1	1161.5	1155.1	1148.7	1150.8	1154.4
25°	1175.1	1153.0	1132.9	1117.2	1113.6	1090.7	1072.1	1066.4	1055.7	1064.3	1065.7
27.5°	1106.5	1081.4	1049.2	1035.7	1017.1	1007.8	994.9	977.7	955.5	968.4	966.3
30°	1032.8	995.6	969.1	936.2	906.9	904.8	880.4	851.8	840.4	840.4	846.8
32.5°	950.5	901.2	862.6	816.1	787.5	775.3	746.0	717.4	723.8	702.4	710.2
35°	854.7	789.6	741.0	695.9	674.5	660.2	622.3	606.5	589.4	579.3	597.9
37.5°	763.2	688.1	625.8	576.5	568.6	542.9	517.1	507.1	497.1	501.4	500.7
40°	651.6	585.1	529.3	490.6	477.1	464.9	447.7	435.6	429.1	432.7	433.4
42.5°	550.7	494.9	453.5	426.3	414.8	406.3	397.7	387.7	385.5	385.5	388.4
45°	472.8	427.0	399.1	376.9	370.5	364.1	357.6	353.3	351.9	349.0	351.2
47.5°	410.5	374.1	356.9	340.4	333.3	331.9	326.1	324.0	321.1	320.4	321.1
50°	358.3	335.4	319.7	310.4	305.4	303.3	300.4	296.1	294.7	298.3	296.8
52.5°	321.9	300.4	291.8	282.5	279.7	276.8	272.5	273.2	272.5	271.1	271.1
55°	285.4	271.8	263.2	256.1	255.3	252.5	248.9	247.5	246.8	245.3	247.5
57.5°	256.1	245.3	237.5	231.0	228.2	228.2	224.6	221.7	221.7	221.0	221.7
60°	226.7	216.0	211.0	204.6	202.4	201.7	199.5	198.1	196.0	196.0	196.0
62.5°	199.5	191.0	185.2	179.5	180.2	176.7	173.8	172.4	172.4	173.1	173.1
65°	173.8	168.1	160.9	155.9	154.5	153.8	152.3	151.6	149.5	150.9	150.9
67.5°	150.2	142.3	138.0	135.9	133.7	133.0	131.6	130.2	129.5	128.7	130.2
70°	126.6	120.2	116.6	115.2	113.0	112.3	111.6	109.4	110.1	110.9	111.6
72.5°	105.1	99.4	98.7	94.4	94.4	94.4	91.5	93.0	92.3	90.8	92.3
75°	83.0	80.1	78.7	76.5	77.2	76.5	75.8	73.7	73.7	74.4	75.1
77.5°	65.8	62.9	62.2	60.1	58.6	60.1	58.6	57.9	57.9	58.6	58.6
80°	48.6	47.2	45.1	45.1	45.1	44.3	44.3	44.3	43.6	42.9	43.6
82.5°	32.2	32.2	31.5	30.8	31.5	30.0	30.8	30.8	30.8	30.8	30.8
85°	20.7	20.0	20.0	19.3	19.3	19.3	20.0	18.6	18.6	19.3	19.3
87.5°	9.3	9.3	9.3	10.0	9.3	9.3	9.3	10.0	9.3	9.3	9.3
90°	8.8	9.2	9.7	10.2	10.4	10.5	10.7	10.8	11.0	11.2	11.0
92.5°	10.2	10.4	10.5	10.7	10.8	10.8	10.9	11.0	11.1	11.2	11.1
95°	16.7	17.1	17.6	18.1	18.3	18.3	18.2	18.1	18.0	17.9	18.0
97.5°	21.5	21.7	22.0	22.3	22.4	22.5	22.6	22.7	22.8	22.9	22.8
100°	24.4	25.2	25.9	26.6	27.0	27.1	27.3	27.4	27.6	27.8	27.6
102.5°	25.5	26.5	27.6	28.6	29.1	29.2	29.5	29.8	30.0	30.3	30.0
105°	26.4	27.4	28.4	29.4	29.9	30.1	30.5	30.8	31.2	31.6	31.2
107.5°	27.2	28.2	29.3	30.3	30.8	31.0	31.3	31.7	32.0	32.4	32.0
110°	63.5	54.3	45.0	35.8	31.2	31.4	31.7	32.1	32.4	32.8	32.4

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	171.3	131.5	91.7	51.9	32.0	32.1	32.4	32.7	33.0	33.3	33.0
115°	213.7	170.9	128.2	85.4	64.0	60.7	54.0	47.4	40.7	34.1	40.7
117.5°	265.7	252.5	239.3	226.1	219.5	207.4	183.2	159.0	134.8	110.6	134.8
120°	305.8	306.9	308.0	309.1	309.7	303.5	291.0	278.5	266.0	253.5	266.0
122.5°	329.8	330.3	330.9	331.4	331.7	331.7	331.8	331.9	332.0	332.1	332.0
125°	351.8	352.5	353.1	353.8	354.1	354.2	354.5	354.8	355.1	355.4	355.1
127.5°	372.5	373.4	374.3	375.2	375.7	375.8	375.9	376.0	376.1	376.2	376.1
130°	392.1	393.1	394.2	395.2	395.7	395.7	395.6	395.5	395.4	395.3	395.4
132.5°	411.5	412.3	413.2	414.0	414.4	414.4	414.3	414.2	414.1	414.0	414.1
135°	429.4	430.4	431.3	432.2	432.7	432.6	432.4	432.3	432.1	431.9	432.1
137.5°	446.5	447.4	448.3	449.2	449.7	449.6	449.3	449.0	448.8	448.5	448.8
140°	463.0	463.8	464.7	465.5	465.9	465.7	465.2	464.8	464.3	463.9	464.3
142.5°	478.3	479.1	479.8	480.5	480.9	480.7	480.2	479.7	479.3	478.8	479.3
145°	492.3	493.0	493.6	494.3	494.6	494.4	493.9	493.4	493.0	492.5	493.0
147.5°	505.1	505.5	506.0	506.5	506.7	506.5	506.1	505.8	505.4	505.0	505.4
150°	516.4	516.9	517.5	518.0	518.3	518.1	517.6	517.1	516.7	516.2	516.7
152.5°	526.8	527.3	527.9	528.4	528.7	528.4	527.7	527.1	526.4	525.8	526.4
155°	535.9	536.4	537.0	537.5	537.8	537.4	536.7	536.0	535.2	534.5	535.2
157.5°	543.9	544.5	545.2	545.9	546.2	545.8	545.1	544.3	543.6	542.8	543.6
160°	550.9	551.4	552.0	552.5	552.8	552.5	551.8	551.2	550.5	549.9	550.5
162.5°	557.2	557.8	558.5	559.2	559.5	559.1	558.2	557.4	556.5	555.7	556.5
165°	562.1	562.8	563.4	564.1	564.4	564.1	563.4	562.8	562.1	561.5	562.1
167.5°	566.7	567.4	568.0	568.7	569.0	568.6	567.8	566.9	566.1	565.3	566.1
170°	570.0	570.7	571.3	572.0	572.3	571.9	571.1	570.2	569.4	568.6	569.4
172.5°	572.5	573.2	573.8	574.5	574.8	574.4	573.6	572.7	571.9	571.1	571.9
175°	574.2	574.9	575.5	576.2	576.5	576.0	575.1	574.2	573.2	572.3	573.2
177.5°	574.6	575.3	575.9	576.6	576.9	576.5	575.7	574.8	574.0	573.2	574.0
180°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	986.3	981.3	977.0	977.7	981.3	978.4	971.3	962.0	958.4	954.1	958.4
5°	1045.7	1041.4	1032.8	1033.5	1031.4	1028.5	1017.1	1002.8	1002.8	991.3	989.9
7.5°	1104.3	1097.9	1092.2	1090.7	1082.9	1077.1	1067.1	1047.1	1039.2	1025.6	1017.8
10°	1170.1	1165.1	1158.7	1150.8	1146.5	1136.5	1120.1	1090.7	1076.4	1057.8	1044.2
12.5°	1236.6	1235.9	1221.6	1205.9	1205.2	1189.4	1178.0	1138.6	1119.3	1094.3	1062.1
15°	1278.8	1275.3	1267.4	1259.5	1261.7	1244.5	1218.8	1172.3	1159.4	1129.3	1095.0
17.5°	1278.1	1278.1	1276.0	1274.5	1272.4	1267.4	1253.1	1222.3	1201.6	1163.7	1131.5
20°	1237.3	1246.6	1248.8	1248.1	1255.2	1258.8	1258.1	1238.8	1222.3	1188.7	1155.8
22.5°	1155.8	1177.3	1186.6	1192.3	1207.3	1215.2	1233.8	1226.6	1222.3	1197.3	1169.4
25°	1080.0	1087.2	1115.0	1116.5	1137.2	1156.5	1175.1	1187.3	1203.0	1193.7	1170.1
27.5°	982.0	998.5	1018.5	1033.5	1037.8	1077.1	1107.9	1130.8	1166.5	1169.4	1161.5
30°	871.2	879.0	911.9	931.9	954.8	983.4	1027.8	1067.1	1099.3	1128.6	1138.6
32.5°	736.0	768.2	787.5	811.8	831.8	882.6	937.0	987.7	1024.9	1074.3	1095.7
35°	612.2	637.3	670.2	680.2	716.7	759.6	830.4	895.5	952.0	1002.0	1045.7
37.5°	510.0	530.0	565.0	580.8	602.2	657.3	716.7	797.5	865.4	926.9	981.3
40°	439.9	454.9	481.4	486.4	504.2	554.3	602.2	678.0	768.2	851.1	910.5
42.5°	391.9	399.1	417.0	423.4	434.9	468.5	511.4	582.9	666.6	752.4	836.1
45°	357.6	362.6	373.4	379.1	393.4	408.4	443.4	500.7	566.5	653.0	743.1
47.5°	326.9	333.3	337.6	341.2	349.0	365.5	388.4	430.6	493.5	572.9	660.2
50°	301.1	303.3	311.1	311.8	316.8	327.6	349.0	374.8	424.8	489.2	573.6
52.5°	275.4	277.5	282.5	287.5	289.7	298.3	312.6	334.0	371.2	422.0	497.1
55°	249.6	252.5	257.5	261.1	263.2	270.4	278.9	299.7	329.0	364.8	426.3
57.5°	223.9	230.3	231.7	233.9	237.5	245.3	253.2	265.4	288.2	321.1	366.2
60°	199.5	201.7	206.7	208.8	212.4	216.7	226.7	236.0	252.5	278.2	319.0
62.5°	174.5	179.5	181.7	183.8	186.7	191.7	198.1	208.1	222.4	243.2	275.4
65°	153.1	153.8	158.1	160.9	163.8	167.4	173.8	183.1	191.7	211.0	234.6
67.5°	132.3	133.7	135.2	138.0	141.6	145.2	150.9	155.9	166.6	179.5	198.1
70°	112.3	112.3	115.9	118.0	117.3	121.6	125.9	131.6	139.5	151.6	166.6
72.5°	94.4	93.7	96.6	97.3	98.7	101.6	104.4	110.1	114.4	123.7	135.2
75°	75.1	76.5	78.0	78.0	80.1	82.3	85.1	88.0	93.0	98.7	107.3
77.5°	59.4	59.4	60.8	61.5	63.7	62.9	65.8	68.7	72.2	77.2	83.7
80°	43.6	45.1	45.1	45.1	45.8	46.5	49.4	51.5	53.6	57.2	60.1
82.5°	30.8	30.8	32.2	32.2	32.2	33.6	33.6	34.3	35.8	37.9	40.1
85°	19.3	19.3	19.3	20.0	19.3	20.0	21.5	20.7	21.5	22.9	22.9
87.5°	9.3	9.3	9.3	9.3	9.3	10.0	9.3	10.0	10.7	10.7	10.7
90°	10.8	10.7	10.5	10.4	10.2	9.7	9.2	8.8	8.3	7.6	6.8
92.5°	11.0	10.9	10.8	10.8	10.7	10.5	10.4	10.2	10.0	9.7	9.4
95°	18.1	18.2	18.3	18.3	18.1	17.6	17.1	16.7	16.2	15.6	14.9
97.5°	22.7	22.6	22.5	22.4	22.3	22.0	21.7	21.5	21.2	19.7	18.2
100°	27.4	27.3	27.1	27.0	26.6	25.9	25.2	24.4	23.7	22.1	20.5
102.5°	29.8	29.5	29.2	29.1	28.6	27.6	26.5	25.5	24.5	41.3	58.1
105°	30.8	30.5	30.1	29.9	29.4	28.4	27.4	26.4	25.4	50.6	75.8
107.5°	31.7	31.3	31.0	30.8	30.3	29.3	28.2	27.2	26.2	57.3	88.5
110°	32.1	31.7	31.4	31.2	35.8	45.0	54.3	63.5	72.7	99.4	126.1

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	32.7	32.4	32.1	32.0	51.9	91.7	131.5	171.3	211.1	212.7	214.3
115°	47.4	54.0	60.7	64.0	85.4	128.2	170.9	213.7	256.5	254.2	251.9
117.5°	159.0	183.2	207.4	219.5	226.1	239.3	252.5	265.7	278.9	277.3	275.7
120°	278.5	291.0	303.5	309.7	309.1	308.0	306.9	305.8	304.7	303.0	301.4
122.5°	331.9	331.8	331.7	331.7	331.4	330.9	330.3	329.8	329.2	327.4	325.5
125°	354.8	354.5	354.2	354.1	353.8	353.1	352.5	351.8	351.2	349.4	347.7
127.5°	376.0	375.9	375.8	375.7	375.2	374.3	373.4	372.5	371.6	370.2	368.8
130°	395.5	395.6	395.7	395.7	395.2	394.2	393.1	392.1	391.1	390.1	389.1
132.5°	414.2	414.3	414.4	414.4	414.0	413.2	412.3	411.5	410.7	409.7	408.7
135°	432.3	432.4	432.6	432.7	432.2	431.3	430.4	429.4	428.5	427.7	426.9
137.5°	449.0	449.3	449.6	449.7	449.2	448.3	447.4	446.5	445.6	444.7	443.7
140°	464.8	465.2	465.7	465.9	465.5	464.7	463.8	463.0	462.2	461.2	460.2
142.5°	479.7	480.2	480.7	480.9	480.5	479.8	479.1	478.3	477.6	476.4	475.2
145°	493.4	493.9	494.4	494.6	494.3	493.6	493.0	492.3	491.7	490.1	488.5
147.5°	505.8	506.1	506.5	506.7	506.5	506.0	505.5	505.1	504.6	503.0	501.4
150°	517.1	517.6	518.1	518.3	518.0	517.5	516.9	516.4	515.8	514.3	512.9
152.5°	527.1	527.7	528.4	528.7	528.4	527.9	527.3	526.8	526.2	524.8	523.4
155°	536.0	536.7	537.4	537.8	537.5	537.0	536.4	535.9	535.3	534.2	533.1
157.5°	544.3	545.1	545.8	546.2	545.9	545.2	544.5	543.9	543.2	542.4	541.6
160°	551.2	551.8	552.5	552.8	552.5	552.0	551.4	550.9	550.3	549.7	549.2
162.5°	557.4	558.2	559.1	559.5	559.2	558.5	557.8	557.2	556.5	556.1	555.6
165°	562.8	563.4	564.1	564.4	564.1	563.4	562.8	562.1	561.5	561.2	561.0
167.5°	566.9	567.8	568.6	569.0	568.7	568.0	567.4	566.7	566.1	565.8	565.6
170°	570.2	571.1	571.9	572.3	572.0	571.3	570.7	570.0	569.4	569.2	569.0
172.5°	572.7	573.6	574.4	574.8	574.5	573.8	573.2	572.5	571.9	571.7	571.5
175°	574.2	575.1	576.0	576.5	576.2	575.5	574.9	574.2	573.6	573.4	573.2
177.5°	574.8	575.7	576.5	576.9	576.6	575.9	575.3	574.6	574.0	573.9	573.8
180°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	954.8	951.3	949.1	950.5	946.3	935.5	935.5	939.1	934.8	930.5	924.1
5°	981.3	974.1	969.9	969.1	959.1	942.0	938.4	934.8	925.5	915.5	904.8
7.5°	1007.0	994.2	987.0	982.0	967.7	945.5	936.2	928.4	913.3	898.3	884.7
10°	1028.5	1009.9	1001.3	993.5	974.9	947.0	931.9	917.6	898.3	879.0	861.9
12.5°	1045.7	1024.2	1013.5	1002.0	979.2	942.7	924.1	901.2	881.9	856.1	839.0
15°	1074.3	1029.9	1019.9	1009.2	985.6	935.5	912.6	886.9	860.4	826.1	807.5
17.5°	1097.2	1037.8	1037.1	1014.2	983.4	932.7	897.6	864.0	835.4	801.1	771.7
20°	1110.8	1050.0	1038.5	1014.9	976.3	913.3	876.9	839.7	808.9	767.4	738.1
22.5°	1122.2	1067.1	1037.1	1008.5	961.3	906.9	853.3	818.2	776.0	731.0	703.1
25°	1126.5	1070.7	1039.2	1006.3	950.5	888.3	827.5	789.6	742.4	701.6	663.7
27.5°	1127.2	1070.0	1031.4	997.0	935.5	864.0	801.8	761.7	709.5	662.3	624.4
30°	1120.1	1062.1	1027.1	989.9	921.2	841.8	770.3	726.0	670.2	623.0	583.6
32.5°	1098.6	1046.4	1017.8	977.0	902.6	811.1	740.3	690.9	632.3	585.8	547.9
35°	1062.8	1027.1	995.6	957.7	878.3	782.5	710.2	652.3	592.9	548.6	512.8
37.5°	1018.5	999.2	969.9	932.7	850.4	756.7	676.6	612.2	552.9	510.0	474.9
40°	958.4	963.4	934.8	901.2	817.5	721.7	633.0	571.5	515.7	475.6	441.3
42.5°	893.3	914.1	897.6	865.4	781.0	683.0	600.8	532.8	478.5	437.0	408.4
45°	823.2	859.0	849.0	825.4	743.1	642.3	555.0	489.2	441.3	401.2	376.2
47.5°	746.7	797.5	797.5	780.3	700.9	601.5	515.7	448.4	401.2	372.6	348.3
50°	668.7	726.0	735.3	723.8	653.7	555.0	467.8	407.0	366.2	338.3	320.4
52.5°	587.2	653.7	670.9	665.2	603.7	510.7	428.4	369.1	331.9	307.5	291.8
55°	509.2	586.5	605.1	607.2	550.0	462.0	384.8	332.6	296.8	280.4	266.8
57.5°	435.6	510.0	530.7	534.3	495.7	417.7	344.0	298.3	266.1	252.5	241.7
60°	372.6	434.9	462.0	469.9	436.3	366.2	306.1	261.8	237.5	224.6	214.6
62.5°	321.1	371.2	399.8	402.0	386.9	321.1	266.8	229.6	208.8	197.4	192.4
65°	271.1	316.1	333.3	341.9	329.7	278.2	230.3	199.5	183.1	173.1	168.1
67.5°	231.0	259.6	273.9	285.4	273.2	234.6	196.0	170.9	158.8	148.8	145.9
70°	189.5	213.1	223.9	235.3	224.6	195.3	167.4	144.5	133.7	125.9	122.3
72.5°	151.6	170.2	180.2	187.4	181.0	156.6	133.7	118.0	110.1	104.4	102.3
75°	120.2	133.0	138.8	143.8	140.9	122.3	108.0	95.1	88.0	83.0	81.5
77.5°	91.5	100.8	107.3	108.7	105.1	93.0	80.8	73.0	67.2	64.4	62.9
80°	65.1	70.8	74.4	76.5	73.0	67.9	59.4	53.6	48.6	45.1	44.3
82.5°	43.6	46.5	49.4	48.6	47.2	42.9	37.9	35.0	32.9	30.0	30.0
85°	25.0	25.7	27.2	27.9	27.2	24.3	21.5	20.0	18.6	16.5	16.5
87.5°	10.7	11.4	11.4	12.2	10.7	10.7	9.3	7.9	7.9	7.2	6.4
90°	6.1	5.4	5.0	4.5	3.5	2.4	1.4	0.4	1.4	2.4	3.5
92.5°	9.1	8.8	8.7	8.9	9.3	9.6	10.0	10.4	10.0	9.6	9.3
95°	14.3	13.6	13.3	14.8	17.9	20.9	24.0	27.0	24.0	20.9	17.9
97.5°	16.7	15.2	14.5	18.3	25.9	33.4	41.0	48.6	41.0	33.4	25.9
100°	19.0	17.4	16.6	22.9	35.6	48.3	60.9	73.6	60.9	48.3	35.6
102.5°	75.0	91.8	100.2	100.3	100.5	100.6	100.8	101.0	100.8	100.6	100.5
105°	101.0	126.2	138.8	137.4	134.7	131.9	129.2	126.4	129.2	131.9	134.7
107.5°	119.6	150.7	166.3	165.1	162.8	160.5	158.2	155.9	158.2	160.5	162.8
110°	152.8	179.5	192.9	191.9	190.0	188.0	186.1	184.1	186.1	188.0	190.0

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	215.8	217.4	218.2	217.4	215.7	214.0	212.4	210.7	212.4	214.0	215.7
115°	249.6	247.3	246.1	245.3	243.7	242.2	240.6	239.0	240.6	242.2	243.7
117.5°	274.2	272.6	271.8	270.9	269.0	267.2	265.3	263.5	265.3	267.2	269.0
120°	299.7	298.0	297.2	296.5	295.1	293.7	292.3	290.9	292.3	293.7	295.1
122.5°	323.7	321.8	320.9	320.2	318.7	317.2	315.7	314.2	315.7	317.2	318.7
125°	345.9	344.2	343.3	342.7	341.5	340.3	339.1	337.9	339.1	340.3	341.5
127.5°	367.4	366.0	365.3	364.7	363.4	362.1	360.8	359.5	360.8	362.1	363.4
130°	388.0	387.0	386.5	385.8	384.3	382.8	381.4	379.9	381.4	382.8	384.3
132.5°	407.6	406.6	406.1	405.5	404.3	403.1	401.9	400.7	401.9	403.1	404.3
135°	426.0	425.2	424.8	424.1	422.6	421.1	419.6	418.1	419.6	421.1	422.6
137.5°	442.8	441.9	441.4	440.8	439.7	438.6	437.5	436.4	437.5	438.6	439.7
140°	459.1	458.1	457.6	457.2	456.5	455.8	455.0	454.3	455.0	455.8	456.5
142.5°	474.0	472.8	472.2	471.9	471.2	470.6	469.9	469.3	469.9	470.6	471.2
145°	487.0	485.4	484.6	484.7	484.8	484.9	485.0	485.1	485.0	484.9	484.8
147.5°	499.9	498.3	497.5	497.6	497.9	498.2	498.5	498.8	498.5	498.2	497.9
150°	511.4	509.9	509.2	509.5	510.2	510.8	511.5	512.1	511.5	510.8	510.2
152.5°	522.1	520.7	520.0	520.4	521.1	521.8	522.6	523.3	522.6	521.8	521.1
155°	532.0	530.9	530.4	530.8	531.6	532.5	533.3	534.1	533.3	532.5	531.6
157.5°	540.7	539.9	539.5	539.9	540.6	541.3	542.1	542.8	542.1	541.3	540.6
160°	548.6	548.1	547.8	548.1	548.6	549.2	549.7	550.3	549.7	549.2	548.6
162.5°	555.2	554.7	554.5	554.8	555.3	555.9	556.4	557.0	556.4	555.9	555.3
165°	560.7	560.4	560.3	560.6	561.1	561.7	562.2	562.8	562.2	561.7	561.1
167.5°	565.3	565.0	564.9	565.2	565.7	566.3	566.8	567.4	566.8	566.3	565.7
170°	568.9	568.7	568.6	568.9	569.4	570.0	570.5	571.1	570.5	570.0	569.4
172.5°	571.4	571.2	571.1	571.4	571.9	572.5	573.0	573.6	573.0	572.5	571.9
175°	573.1	572.9	572.8	573.1	573.8	574.4	575.1	575.7	575.1	574.4	573.8
177.5°	573.7	573.6	573.6	573.9	574.6	575.2	575.9	576.5	575.9	575.2	574.6
180°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	920.5	924.1	923.4	916.2	908.3	901.9	889.7	891.2	886.9	887.6	891.9
5°	897.6	897.6	894.8	884.7	871.9	864.7	851.1	847.5	839.0	838.3	837.5
7.5°	873.3	869.7	866.1	851.8	836.1	824.7	806.1	801.8	793.2	787.5	784.6
10°	844.7	839.7	832.5	816.1	796.8	782.5	763.2	757.4	741.0	733.8	729.5
12.5°	813.2	810.4	798.9	785.3	753.9	738.1	710.2	715.9	699.5	685.2	683.0
15°	781.7	771.0	764.6	742.4	704.5	697.3	675.2	663.7	648.7	637.3	637.3
17.5°	751.0	734.5	720.2	696.6	668.7	648.7	632.3	626.5	607.9	596.5	594.4
20°	710.2	691.6	688.1	654.4	635.1	613.0	597.2	582.9	569.3	564.3	560.7
22.5°	671.6	650.1	644.4	615.8	596.5	574.3	558.6	548.6	538.6	535.0	528.6
25°	630.1	617.2	608.7	577.9	556.4	535.7	525.0	517.8	508.5	507.8	503.5
27.5°	590.1	577.9	569.3	540.0	524.3	505.0	496.4	488.5	483.5	481.4	479.2
30°	555.7	542.1	532.1	510.7	491.4	475.6	468.5	463.5	460.6	457.0	456.3
32.5°	517.8	510.0	496.4	479.9	464.9	449.9	445.6	442.0	437.7	436.3	435.6
35°	485.6	474.9	466.3	447.7	441.3	428.4	423.4	420.6	414.8	413.4	412.0
37.5°	454.2	444.2	434.9	423.4	411.3	404.1	401.2	397.0	394.1	394.8	393.4
40°	422.7	414.8	407.7	395.5	388.4	384.8	379.1	374.8	373.4	374.1	373.4
42.5°	391.9	384.8	380.5	371.2	364.1	360.5	356.9	352.6	354.8	354.8	356.9
45°	364.1	357.6	354.8	347.6	343.3	337.6	334.0	333.3	336.2	335.4	335.4
47.5°	335.4	333.3	329.7	323.3	317.6	314.0	313.3	313.3	316.1	317.6	316.8
50°	313.3	309.0	304.7	299.7	295.4	294.0	291.8	293.2	296.1	296.1	297.5
52.5°	285.4	282.5	281.1	276.8	273.9	273.9	273.9	274.6	276.8	278.9	278.2
55°	261.1	258.9	257.5	255.3	251.8	252.5	251.8	253.2	255.3	257.5	258.9
57.5°	235.3	234.6	233.2	229.6	229.6	228.9	231.0	231.7	235.3	236.7	238.9
60°	212.4	210.3	210.3	207.4	207.4	207.4	209.6	211.7	214.6	215.3	216.7
62.5°	188.1	188.1	187.4	185.2	185.2	187.4	188.1	191.0	192.4	192.4	194.5
65°	165.2	164.5	163.8	164.5	165.2	165.2	167.4	168.8	170.2	170.9	171.7
67.5°	142.3	141.6	143.0	142.3	143.8	146.6	145.9	148.1	150.2	150.2	150.9
70°	120.9	122.3	121.6	123.0	122.3	123.7	125.9	126.6	126.6	127.3	129.5
72.5°	100.8	100.8	100.8	100.1	100.8	102.3	103.7	104.4	105.9	106.6	108.7
75°	81.5	81.5	80.1	81.5	81.5	83.0	84.4	84.4	84.4	85.8	88.0
77.5°	61.5	62.2	61.5	62.9	62.9	63.7	65.1	64.4	65.8	66.5	67.2
80°	45.1	44.3	44.3	44.3	45.1	45.1	46.5	47.2	47.2	49.4	47.9
82.5°	28.6	29.3	28.6	29.3	29.3	30.0	29.3	30.0	30.8	32.2	31.5
85°	16.5	15.7	15.7	16.5	15.7	15.7	16.5	15.7	16.5	15.7	16.5
87.5°	6.4	5.7	5.7	5.7	5.7	5.0	5.0	4.3	4.3	4.3	3.6
90°	4.5	5.0	5.4	6.1	6.8	7.6	8.3	8.8	9.2	9.7	10.2
92.5°	8.9	8.7	8.8	9.1	9.4	9.7	10.0	10.2	10.4	10.5	10.7
95°	14.8	13.3	13.6	14.3	14.9	15.6	16.2	16.7	17.1	17.6	18.1
97.5°	18.3	14.5	15.2	16.7	18.2	19.7	21.2	21.5	21.7	22.0	22.3
100°	22.9	16.6	17.4	19.0	20.5	22.1	23.7	24.4	25.2	25.9	26.6
102.5°	100.3	100.2	91.8	75.0	58.1	41.3	24.5	25.5	26.5	27.6	28.6
105°	137.4	138.8	126.2	101.0	75.8	50.6	25.4	26.4	27.4	28.4	29.4
107.5°	165.1	166.3	150.7	119.6	88.5	57.3	26.2	27.2	28.2	29.3	30.3
110°	191.9	192.9	179.5	152.8	126.1	99.4	72.7	63.5	54.3	45.0	35.8

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	217.4	218.2	217.4	215.8	214.3	212.7	211.1	171.3	131.5	91.7	51.9
115°	245.3	246.1	247.3	249.6	251.9	254.2	256.5	213.7	170.9	128.2	85.4
117.5°	270.9	271.8	272.6	274.2	275.7	277.3	278.9	265.7	252.5	239.3	226.1
120°	296.5	297.2	298.0	299.7	301.4	303.0	304.7	305.8	306.9	308.0	309.1
122.5°	320.2	320.9	321.8	323.7	325.5	327.4	329.2	329.8	330.3	330.9	331.4
125°	342.7	343.3	344.2	345.9	347.7	349.4	351.2	351.8	352.5	353.1	353.8
127.5°	364.7	365.3	366.0	367.4	368.8	370.2	371.6	372.5	373.4	374.3	375.2
130°	385.8	386.5	387.0	388.0	389.1	390.1	391.1	392.1	393.1	394.2	395.2
132.5°	405.5	406.1	406.6	407.6	408.7	409.7	410.7	411.5	412.3	413.2	414.0
135°	424.1	424.8	425.2	426.0	426.9	427.7	428.5	429.4	430.4	431.3	432.2
137.5°	440.8	441.4	441.9	442.8	443.7	444.7	445.6	446.5	447.4	448.3	449.2
140°	457.2	457.6	458.1	459.1	460.2	461.2	462.2	463.0	463.8	464.7	465.5
142.5°	471.9	472.2	472.8	474.0	475.2	476.4	477.6	478.3	479.1	479.8	480.5
145°	484.7	484.6	485.4	487.0	488.5	490.1	491.7	492.3	493.0	493.6	494.3
147.5°	497.6	497.5	498.3	499.9	501.4	503.0	504.6	505.1	505.5	506.0	506.5
150°	509.5	509.2	509.9	511.4	512.9	514.3	515.8	516.4	516.9	517.5	518.0
152.5°	520.4	520.0	520.7	522.1	523.4	524.8	526.2	526.8	527.3	527.9	528.4
155°	530.8	530.4	530.9	532.0	533.1	534.2	535.3	535.9	536.4	537.0	537.5
157.5°	539.9	539.5	539.9	540.7	541.6	542.4	543.2	543.9	544.5	545.2	545.9
160°	548.1	547.8	548.1	548.6	549.2	549.7	550.3	550.9	551.4	552.0	552.5
162.5°	554.8	554.5	554.7	555.2	555.6	556.1	556.5	557.2	557.8	558.5	559.2
165°	560.6	560.3	560.4	560.7	561.0	561.2	561.5	562.1	562.8	563.4	564.1
167.5°	565.2	564.9	565.0	565.3	565.6	565.8	566.1	566.7	567.4	568.0	568.7
170°	568.9	568.6	568.7	568.9	569.0	569.2	569.4	570.0	570.7	571.3	572.0
172.5°	571.4	571.1	571.2	571.4	571.5	571.7	571.9	572.5	573.2	573.8	574.5
175°	573.1	572.8	572.9	573.1	573.2	573.4	573.6	574.2	574.9	575.5	576.2
177.5°	573.9	573.6	573.6	573.7	573.8	573.9	574.0	574.6	575.3	575.9	576.6
180°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	886.9	889.0	884.0	882.6	884.0	879.0	880.4	881.9	881.9	884.0	885.5
5°	835.4	832.5	827.5	826.1	824.7	826.8	825.4	827.5	828.2	833.2	834.0
7.5°	784.6	780.3	776.0	771.7	770.3	766.7	770.3	770.3	775.3	773.9	777.5
10°	724.5	723.8	718.1	715.9	713.1	707.4	715.2	713.1	716.7	723.1	724.5
12.5°	680.2	672.3	675.9	665.9	669.5	663.7	664.4	664.4	670.2	670.9	669.5
15°	638.0	631.5	622.3	618.0	615.8	613.0	622.3	623.0	618.7	628.7	625.1
17.5°	595.1	595.1	586.5	584.3	578.6	581.5	580.1	580.8	579.3	586.5	590.1
20°	557.9	554.3	551.4	552.2	545.0	543.6	542.1	543.6	548.6	553.6	555.0
22.5°	527.8	525.7	518.5	520.0	514.3	516.4	515.0	518.5	519.3	519.3	524.3
25°	499.2	496.4	497.1	494.2	492.1	492.1	489.9	492.1	494.9	496.4	497.1
27.5°	477.8	475.6	472.1	469.9	471.3	467.8	470.6	472.8	472.8	471.3	472.8
30°	452.0	453.5	453.5	446.3	449.2	447.7	449.9	451.3	451.3	452.0	450.6
32.5°	434.9	430.6	429.9	429.1	429.1	426.3	426.3	428.4	429.1	429.9	432.0
35°	412.0	412.0	408.4	410.5	407.7	408.4	407.7	408.4	409.8	407.7	409.8
37.5°	391.2	391.9	390.5	391.9	392.7	391.2	389.8	392.7	391.2	391.2	389.8
40°	373.4	372.6	373.4	373.4	373.4	374.1	372.6	372.6	372.6	371.2	369.8
42.5°	358.3	354.0	355.5	356.2	354.0	354.0	354.8	354.0	356.2	351.9	351.9
45°	336.9	335.4	336.2	336.2	337.6	335.4	336.9	337.6	335.4	334.7	333.3
47.5°	317.6	319.0	317.6	319.0	319.0	320.4	317.6	318.3	319.0	316.1	314.0
50°	298.3	298.3	300.4	299.7	300.4	299.0	299.0	298.3	299.0	297.5	295.4
52.5°	280.4	278.2	281.8	281.1	280.4	279.7	278.9	279.7	278.2	276.8	276.8
55°	258.2	258.2	260.3	261.1	261.1	259.6	258.2	258.9	258.2	257.5	256.8
57.5°	240.3	237.5	238.9	239.6	239.6	237.5	238.9	237.5	237.5	238.2	236.0
60°	217.4	217.4	216.0	218.1	218.1	216.7	216.7	217.4	216.0	215.3	214.6
62.5°	193.1	193.8	196.0	196.7	197.4	196.0	194.5	195.3	195.3	193.1	193.8
65°	172.4	173.8	176.7	175.9	174.5	175.2	173.8	174.5	172.4	173.1	170.9
67.5°	152.3	151.6	152.3	152.3	153.8	153.1	151.6	151.6	150.9	153.1	150.9
70°	130.9	130.9	130.9	130.9	131.6	132.3	130.9	129.5	130.2	128.7	128.0
72.5°	108.7	109.4	108.7	110.1	108.0	109.4	109.4	108.7	108.0	108.0	108.0
75°	88.0	89.4	87.3	88.0	87.3	88.7	88.0	88.0	86.5	85.8	86.5
77.5°	67.2	67.9	66.5	67.2	66.5	67.2	67.2	66.5	66.5	66.5	66.5
80°	47.9	48.6	47.9	47.2	46.5	47.9	46.5	47.2	47.9	47.2	48.6
82.5°	30.8	30.8	30.0	30.8	29.3	29.3	30.0	30.0	29.3	30.8	29.3
85°	15.0	15.0	16.5	15.0	14.3	14.3	14.3	15.0	14.3	15.7	15.0
87.5°	3.6	2.9	3.6	3.6	2.9	2.9	3.6	2.9	3.6	4.3	2.9
90°	10.4	10.5	10.7	10.8	11.0	11.2	11.0	10.8	10.7	10.5	10.4
92.5°	10.8	10.8	10.9	11.0	11.1	11.2	11.1	11.0	10.9	10.8	10.8
95°	18.3	18.3	18.2	18.1	18.0	17.9	18.0	18.1	18.2	18.3	18.3
97.5°	22.4	22.5	22.6	22.7	22.8	22.9	22.8	22.7	22.6	22.5	22.4
100°	27.0	27.1	27.3	27.4	27.6	27.8	27.6	27.4	27.3	27.1	27.0
102.5°	29.1	29.2	29.5	29.8	30.0	30.3	30.0	29.8	29.5	29.2	29.1
105°	29.9	30.1	30.5	30.8	31.2	31.6	31.2	30.8	30.5	30.1	29.9
107.5°	30.8	31.0	31.3	31.7	32.0	32.4	32.0	31.7	31.3	31.0	30.8
110°	31.2	31.4	31.7	32.1	32.4	32.8	32.4	32.1	31.7	31.4	31.2

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	32.0	32.1	32.4	32.7	33.0	33.3	33.0	32.7	32.4	32.1	32.0
115°	64.0	60.7	54.0	47.4	40.7	34.1	40.7	47.4	54.0	60.7	64.0
117.5°	219.5	207.4	183.2	159.0	134.8	110.6	134.8	159.0	183.2	207.4	219.5
120°	309.7	303.5	291.0	278.5	266.0	253.5	266.0	278.5	291.0	303.5	309.7
122.5°	331.7	331.7	331.8	331.9	332.0	332.1	332.0	331.9	331.8	331.7	331.7
125°	354.1	354.2	354.5	354.8	355.1	355.4	355.1	354.8	354.5	354.2	354.1
127.5°	375.7	375.8	375.9	376.0	376.1	376.2	376.1	376.0	375.9	375.8	375.7
130°	395.7	395.7	395.6	395.5	395.4	395.3	395.4	395.5	395.6	395.7	395.7
132.5°	414.4	414.4	414.3	414.2	414.1	414.0	414.1	414.2	414.3	414.4	414.4
135°	432.7	432.6	432.4	432.3	432.1	431.9	432.1	432.3	432.4	432.6	432.7
137.5°	449.7	449.6	449.3	449.0	448.8	448.5	448.8	449.0	449.3	449.6	449.7
140°	465.9	465.7	465.2	464.8	464.3	463.9	464.3	464.8	465.2	465.7	465.9
142.5°	480.9	480.7	480.2	479.7	479.3	478.8	479.3	479.7	480.2	480.7	480.9
145°	494.6	494.4	493.9	493.4	493.0	492.5	493.0	493.4	493.9	494.4	494.6
147.5°	506.7	506.5	506.1	505.8	505.4	505.0	505.4	505.8	506.1	506.5	506.7
150°	518.3	518.1	517.6	517.1	516.7	516.2	516.7	517.1	517.6	518.1	518.3
152.5°	528.7	528.4	527.7	527.1	526.4	525.8	526.4	527.1	527.7	528.4	528.7
155°	537.8	537.4	536.7	536.0	535.2	534.5	535.2	536.0	536.7	537.4	537.8
157.5°	546.2	545.8	545.1	544.3	543.6	542.8	543.6	544.3	545.1	545.8	546.2
160°	552.8	552.5	551.8	551.2	550.5	549.9	550.5	551.2	551.8	552.5	552.8
162.5°	559.5	559.1	558.2	557.4	556.5	555.7	556.5	557.4	558.2	559.1	559.5
165°	564.4	564.1	563.4	562.8	562.1	561.5	562.1	562.8	563.4	564.1	564.4
167.5°	569.0	568.6	567.8	566.9	566.1	565.3	566.1	566.9	567.8	568.6	569.0
170°	572.3	571.9	571.1	570.2	569.4	568.6	569.4	570.2	571.1	571.9	572.3
172.5°	574.8	574.4	573.6	572.7	571.9	571.1	571.9	572.7	573.6	574.4	574.8
175°	576.5	576.0	575.1	574.2	573.2	572.3	573.2	574.2	575.1	576.0	576.5
177.5°	576.9	576.5	575.7	574.8	574.0	573.2	574.0	574.8	575.7	576.5	576.9
180°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	883.3	889.0	886.9	879.0	888.3	888.3	894.8	894.8	902.6	905.5	909.8
5°	833.2	837.5	841.1	837.5	844.0	854.0	859.7	864.7	875.4	879.7	886.2
7.5°	779.6	787.5	791.0	791.0	801.8	813.2	824.7	831.8	846.8	852.6	859.0
10°	727.4	736.7	743.8	743.1	761.0	768.2	782.5	798.9	813.9	822.5	831.8
12.5°	672.3	677.3	687.3	701.6	705.9	718.8	735.3	756.0	783.2	791.0	804.6
15°	626.5	640.1	648.0	654.4	664.4	676.6	694.5	714.5	741.7	758.9	773.2
17.5°	587.9	605.8	610.8	609.4	622.3	640.8	661.6	676.6	700.9	721.7	735.3
20°	556.4	563.6	572.2	575.8	585.8	605.8	625.8	643.0	663.0	679.5	695.2
22.5°	525.0	530.7	537.9	544.3	552.2	563.6	582.9	604.4	623.7	639.4	657.3
25°	499.2	502.8	509.2	514.3	522.8	530.7	544.3	567.9	590.8	600.1	615.8
27.5°	474.2	477.1	481.4	487.1	491.4	499.2	511.4	530.7	554.3	563.6	585.1
30°	452.0	454.2	458.5	461.3	463.5	472.8	482.1	497.1	515.0	527.8	543.6
32.5°	431.3	433.4	437.7	438.4	441.3	446.3	454.9	468.5	484.2	494.9	508.5
35°	408.4	409.8	414.1	415.5	417.7	422.0	428.4	438.4	452.7	460.6	472.8
37.5°	390.5	389.8	392.7	394.8	397.7	399.8	402.0	412.0	422.7	429.9	439.2
40°	371.2	369.8	370.5	373.4	374.8	377.6	377.6	387.7	394.8	400.5	407.7
42.5°	351.9	351.2	349.7	351.2	352.6	353.3	354.0	361.2	368.3	373.4	381.2
45°	332.6	331.9	330.4	331.2	331.2	332.6	334.7	337.6	342.6	346.9	351.2
47.5°	314.7	313.3	311.1	310.4	311.8	311.8	311.8	314.7	319.7	321.1	325.4
50°	296.1	294.0	291.1	289.7	289.7	289.0	290.4	291.1	295.4	296.8	300.4
52.5°	276.1	274.6	271.8	268.9	269.6	268.2	268.9	269.6	271.1	273.2	275.4
55°	256.1	253.2	251.0	250.3	248.2	248.2	246.0	248.9	248.2	248.9	251.8
57.5°	236.7	233.9	230.3	228.9	226.7	226.0	224.6	223.9	224.6	226.7	228.9
60°	213.9	212.4	210.3	208.1	206.7	204.6	203.1	203.1	202.4	202.4	203.1
62.5°	191.7	191.0	188.1	187.4	186.0	184.5	182.4	181.0	181.0	182.4	183.1
65°	170.2	169.5	167.4	166.6	163.1	161.6	160.9	160.2	158.8	158.8	158.8
67.5°	150.2	148.1	148.1	144.5	141.6	140.2	138.8	138.0	138.0	138.0	138.8
70°	128.0	128.0	125.9	123.7	120.9	121.6	119.4	117.3	117.3	115.9	116.6
72.5°	106.6	105.9	103.7	103.0	100.8	98.7	97.3	98.7	96.6	95.8	96.6
75°	85.8	85.1	83.7	82.3	83.0	80.8	78.7	78.0	78.0	76.5	76.5
77.5°	65.8	67.2	64.4	63.7	62.2	60.8	60.1	59.4	59.4	59.4	60.8
80°	45.8	46.5	46.5	45.1	45.8	43.6	43.6	43.6	41.5	42.2	42.9
82.5°	29.3	29.3	28.6	29.3	28.6	28.6	27.9	27.9	27.2	27.2	27.9
85°	16.5	15.7	15.0	16.5	15.7	15.7	15.0	15.0	15.0	15.0	15.0
87.5°	3.6	4.3	4.3	4.3	4.3	5.0	5.0	5.0	5.7	5.7	5.7
90°	10.2	9.7	9.2	8.8	8.3	7.6	6.8	6.1	5.4	5.0	4.5
92.5°	10.7	10.5	10.4	10.2	10.0	9.7	9.4	9.1	8.8	8.7	8.9
95°	18.1	17.6	17.1	16.7	16.2	15.6	14.9	14.3	13.6	13.3	14.8
97.5°	22.3	22.0	21.7	21.5	21.2	19.7	18.2	16.7	15.2	14.5	18.3
100°	26.6	25.9	25.2	24.4	23.7	22.1	20.5	19.0	17.4	16.6	22.9
102.5°	28.6	27.6	26.5	25.5	24.5	41.3	58.1	75.0	91.8	100.2	100.3
105°	29.4	28.4	27.4	26.4	25.4	50.6	75.8	101.0	126.2	138.8	137.4
107.5°	30.3	29.3	28.2	27.2	26.2	57.3	88.5	119.6	150.7	166.3	165.1
110°	35.8	45.0	54.3	63.5	72.7	99.4	126.1	152.8	179.5	192.9	191.9



TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	51.9	91.7	131.5	171.3	211.1	212.7	214.3	215.8	217.4	218.2	217.4
115°	85.4	128.2	170.9	213.7	256.5	254.2	251.9	249.6	247.3	246.1	245.3
117.5°	226.1	239.3	252.5	265.7	278.9	277.3	275.7	274.2	272.6	271.8	270.9
120°	309.1	308.0	306.9	305.8	304.7	303.0	301.4	299.7	298.0	297.2	296.5
122.5°	331.4	330.9	330.3	329.8	329.2	327.4	325.5	323.7	321.8	320.9	320.2
125°	353.8	353.1	352.5	351.8	351.2	349.4	347.7	345.9	344.2	343.3	342.7
127.5°	375.2	374.3	373.4	372.5	371.6	370.2	368.8	367.4	366.0	365.3	364.7
130°	395.2	394.2	393.1	392.1	391.1	390.1	389.1	388.0	387.0	386.5	385.8
132.5°	414.0	413.2	412.3	411.5	410.7	409.7	408.7	407.6	406.6	406.1	405.5
135°	432.2	431.3	430.4	429.4	428.5	427.7	426.9	426.0	425.2	424.8	424.1
137.5°	449.2	448.3	447.4	446.5	445.6	444.7	443.7	442.8	441.9	441.4	440.8
140°	465.5	464.7	463.8	463.0	462.2	461.2	460.2	459.1	458.1	457.6	457.2
142.5°	480.5	479.8	479.1	478.3	477.6	476.4	475.2	474.0	472.8	472.2	471.9
145°	494.3	493.6	493.0	492.3	491.7	490.1	488.5	487.0	485.4	484.6	484.7
147.5°	506.5	506.0	505.5	505.1	504.6	503.0	501.4	499.9	498.3	497.5	497.6
150°	518.0	517.5	516.9	516.4	515.8	514.3	512.9	511.4	509.9	509.2	509.5
152.5°	528.4	527.9	527.3	526.8	526.2	524.8	523.4	522.1	520.7	520.0	520.4
155°	537.5	537.0	536.4	535.9	535.3	534.2	533.1	532.0	530.9	530.4	530.8
157.5°	545.9	545.2	544.5	543.9	543.2	542.4	541.6	540.7	539.9	539.5	539.9
160°	552.5	552.0	551.4	550.9	550.3	549.7	549.2	548.6	548.1	547.8	548.1
162.5°	559.2	558.5	557.8	557.2	556.5	556.1	555.6	555.2	554.7	554.5	554.8
165°	564.1	563.4	562.8	562.1	561.5	561.2	561.0	560.7	560.4	560.3	560.6
167.5°	568.7	568.0	567.4	566.7	566.1	565.8	565.6	565.3	565.0	564.9	565.2
170°	572.0	571.3	570.7	570.0	569.4	569.2	569.0	568.9	568.7	568.6	568.9
172.5°	574.5	573.8	573.2	572.5	571.9	571.7	571.5	571.4	571.2	571.1	571.4
175°	576.2	575.5	574.9	574.2	573.6	573.4	573.2	573.1	572.9	572.8	573.1
177.5°	576.6	575.9	575.3	574.6	574.0	573.9	573.8	573.7	573.6	573.6	573.9
180°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	930.5	930.5	930.5	930.5
2.5°	913.3	913.3	924.1	935.5
5°	893.3	898.3	915.5	931.2
7.5°	874.0	882.6	904.1	924.1
10°	850.4	861.9	888.3	911.9
12.5°	827.5	838.3	869.0	895.5
15°	795.3	808.9	841.8	874.7
17.5°	763.2	776.7	816.8	855.4
20°	725.2	743.1	788.2	839.7
22.5°	690.2	712.4	762.4	803.9
25°	651.6	685.9	732.4	786.0
27.5°	617.2	651.6	698.8	753.1
30°	578.6	613.7	662.3	712.4
32.5°	541.4	573.6	620.8	682.3
35°	502.8	533.6	579.3	641.6
37.5°	467.8	497.8	547.9	605.1
40°	433.4	464.9	507.8	565.0
42.5°	401.2	429.1	467.8	525.0
45°	371.9	391.9	427.7	481.4
47.5°	341.2	359.0	391.9	445.6
50°	312.6	327.6	356.2	406.3
52.5°	284.7	297.5	324.0	364.1
55°	259.6	271.8	291.1	330.4
57.5°	233.9	243.2	261.8	293.2
60°	208.8	217.4	232.4	258.2
62.5°	183.8	191.0	205.3	226.0
65°	161.6	167.4	178.1	196.0
67.5°	140.2	143.8	152.3	166.6
70°	119.4	122.3	129.5	140.9
72.5°	97.3	100.1	108.0	115.9
75°	78.7	79.4	85.1	91.5
77.5°	61.5	60.8	65.1	70.1
80°	42.2	44.3	47.9	50.1
82.5°	28.6	29.3	30.8	32.2
85°	15.7	16.5	16.5	18.6
87.5°	6.4	7.2	7.2	7.9
90°	3.5	2.4	1.4	0.4
92.5°	9.3	9.6	10.0	10.4
95°	17.9	20.9	24.0	27.0
97.5°	25.9	33.4	41.0	48.6
100°	35.6	48.3	60.9	73.6
102.5°	100.5	100.6	100.8	101.0
105°	134.7	131.9	129.2	126.4
107.5°	162.8	160.5	158.2	155.9
110°	190.0	188.0	186.1	184.1

TEST NUMBER: P1029517

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	215.7	214.0	212.4	210.7
115°	243.7	242.2	240.6	239.0
117.5°	269.0	267.2	265.3	263.5
120°	295.1	293.7	292.3	290.9
122.5°	318.7	317.2	315.7	314.2
125°	341.5	340.3	339.1	337.9
127.5°	363.4	362.1	360.8	359.5
130°	384.3	382.8	381.4	379.9
132.5°	404.3	403.1	401.9	400.7
135°	422.6	421.1	419.6	418.1
137.5°	439.7	438.6	437.5	436.4
140°	456.5	455.8	455.0	454.3
142.5°	471.2	470.6	469.9	469.3
145°	484.8	484.9	485.0	485.1
147.5°	497.9	498.2	498.5	498.8
150°	510.2	510.8	511.5	512.1
152.5°	521.1	521.8	522.6	523.3
155°	531.6	532.5	533.3	534.1
157.5°	540.6	541.3	542.1	542.8
160°	548.6	549.2	549.7	550.3
162.5°	555.3	555.9	556.4	557.0
165°	561.1	561.7	562.2	562.8
167.5°	565.7	566.3	566.8	567.4
170°	569.4	570.0	570.5	571.1
172.5°	571.9	572.5	573.0	573.6
175°	573.8	574.4	575.1	575.7
177.5°	574.6	575.2	575.9	576.5
180°	574.4	574.4	574.4	574.4

(END OF REPORT)